

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P709483

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-TRWH(5000K_L12_347V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS-1218-MV-L84050-TRWH(5000K_L12_347V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL - 12,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

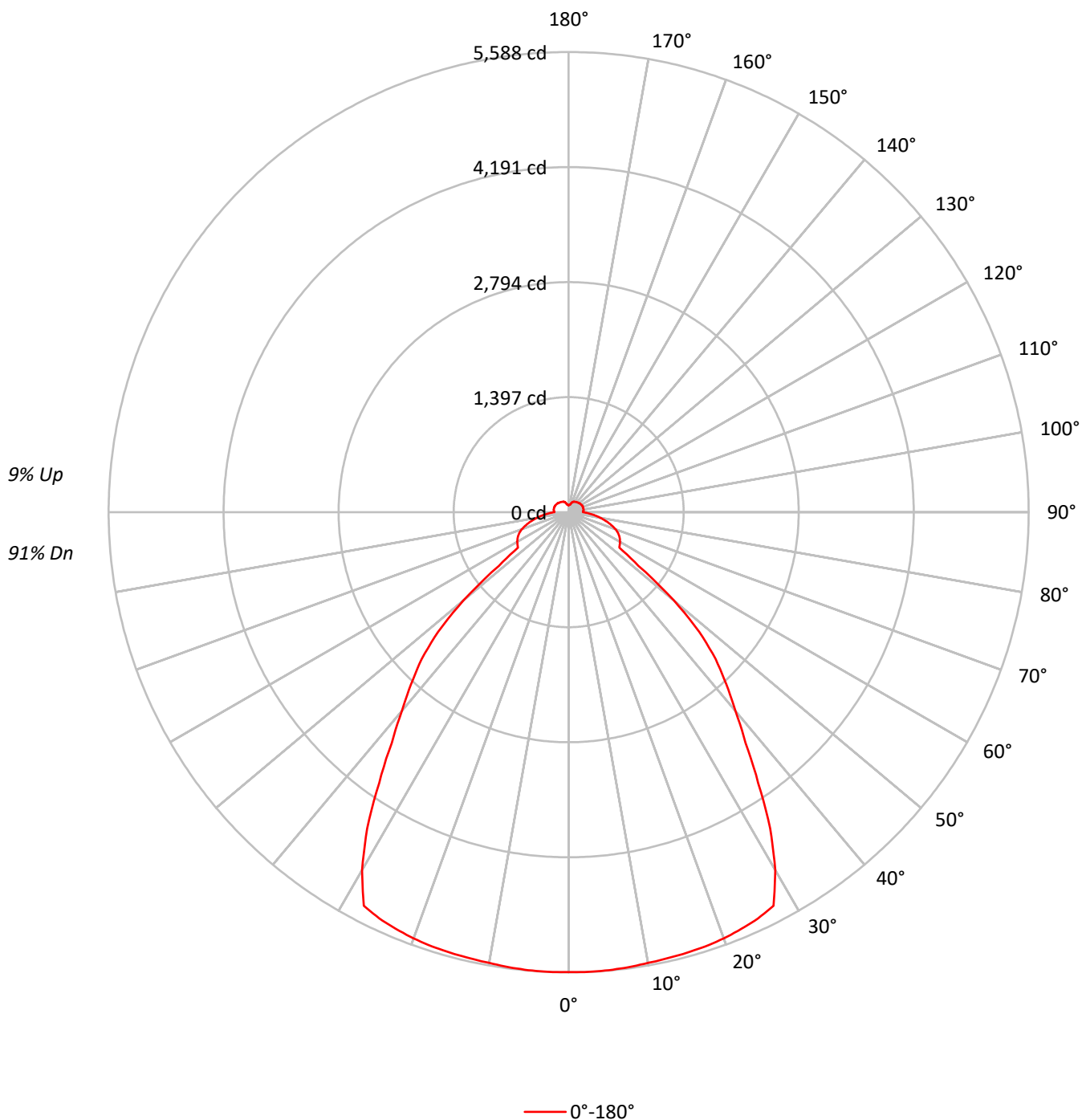
Lumens per Lamp: N/A
Luminaire Lumens: 12404.6 lumens
Efficiency: N/A
Efficacy: 156.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 79.3
Input Voltage (V): 347
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P709483

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91		
1	108	104	100	97	104	101	97	94	95	92	90	90	88	85	85	83	82	79		
2	100	93	87	82	97	90	85	80	85	81	77	81	77	74	77	74	71	69		
3	92	83	76	71	89	81	75	69	77	72	67	73	69	65	70	66	63	61		
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	54		
5	80	68	60	55	77	67	59	54	64	58	53	61	56	51	58	54	50	48		
6	74	62	55	49	72	61	54	48	59	52	47	56	51	46	54	49	45	43		
7	69	57	49	44	67	56	49	44	54	47	43	52	46	42	50	45	41	39		
8	65	53	45	40	63	52	44	39	50	43	39	48	42	38	46	41	37	36		
9	61	49	41	36	59	48	41	36	46	40	35	45	39	35	43	38	34	32		
10	57	45	38	33	56	44	38	33	43	37	32	42	36	32	40	35	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41738
5°	38584
10°	35971
15°	33954
20°	32294
25°	30813
30°	27671
35°	21723
40°	16875
45°	13479
50°	8943
55°	4081
60°	3997
65°	3858
70°	3585
75°	3114
80°	2555
85°	1961

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13479 cd/sqm

TEST NUMBER: P709483

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.1	4.3
10°-20°	1569.1	12.6
20°-30°	2491.5	20.1
30°-40°	2517.9	20.3
40°-50°	1905.3	15.4
50°-60°	833.9	6.7
60°-70°	666.0	5.4
70°-80°	528.1	4.3
80°-90°	304.6	2.5
90°-100°	196.2	1.6
100°-110°	195.3	1.6
110°-120°	181.0	1.5
120°-130°	156.7	1.3
130°-140°	126.8	1.0
140°-150°	95.4	0.8
150°-160°	64.5	0.5
160°-170°	31.6	0.3
170°-180°	8.6	0.1
0°-30°	4592.7	37.0
0°-40°	7110.6	57.3
0°-60°	9849.8	79.4
0°-90°	11348.6	91.5
90°-120°	572.5	4.6
90°-150°	951.4	7.7
90°-180°	1056.0	8.5
0°-180°	12404.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5585	
5°	5584	532
15°	5540	1569
25°	5443	2491
35°	4014	2518
45°	2524	1905
55°	751	834
65°	676	666
75°	502	528
85°	279	250
90°	172	102
95°	181	148
105°	185	195
115°	183	181
125°	175	157
135°	163	127
145°	152	95
155°	140	64
165°	107	32
175°	88	9
180°	84	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5584.6
2.5°	5588.0
5°	5583.7
7.5°	5572.8
10°	5558.5
12.5°	5549.3
15°	5539.9
17.5°	5528.2
20°	5507.9
22.5°	5478.5
25°	5443.1
27.5°	5388.3
30°	5019.5
32.5°	4553.7
35°	4013.7
37.5°	3531.0
40°	3151.1
42.5°	2832.7
45°	2524.4
47.5°	2153.0
50°	1666.9
52.5°	1068.9
55°	751.3
57.5°	736.2
60°	721.0
62.5°	700.9
65°	676.4
67.5°	646.1
70°	605.6
72.5°	555.1
75°	502.0
77.5°	445.6
80°	389.1
82.5°	334.4
85°	278.9
87.5°	224.1
90°	171.8
92.5°	177.7
95°	181.1
97.5°	182.8
100°	183.6
102.5°	184.5
105°	185.3
107.5°	184.5
110°	184.5

TEST NUMBER: P709483

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	183.6
115°	182.8
117.5°	181.1
120°	179.4
122.5°	176.9
125°	175.2
127.5°	171.8
130°	169.3
132.5°	166.8
135°	163.4
137.5°	160.9
140°	157.5
142.5°	154.9
145°	151.6
147.5°	148.3
150°	145.7
152.5°	143.2
155°	139.8
157.5°	134.8
160°	128.9
162.5°	120.5
165°	106.9
167.5°	98.6
170°	94.4
172.5°	91.0
175°	87.6
177.5°	85.9
180°	84.2

(END OF REPORT)